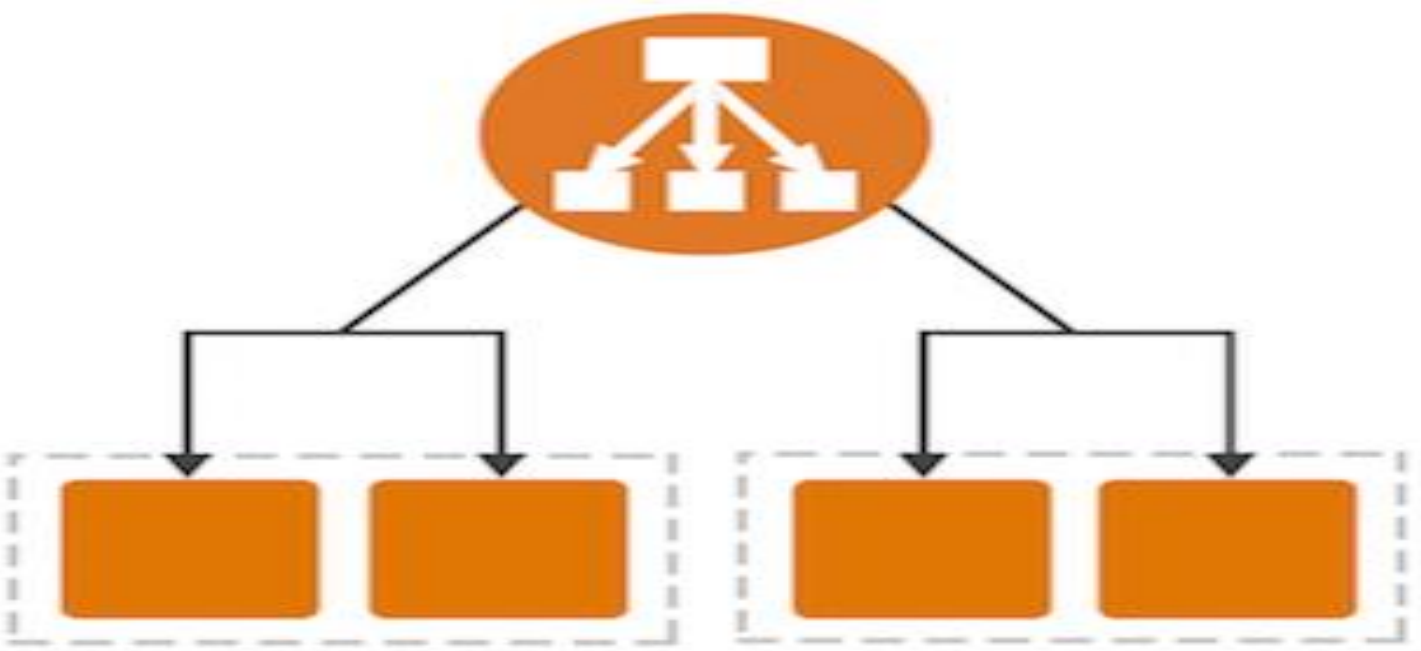
Application Load Balancer

- Application Load Balancer routing traffic to targets based on the content of the request.



Application Load Balancer

- Create Windows EC2 Machine
- Enable HTTP Port
- Install Web server
- Create html file in wwwroot folder
- Create one more folder & create the html file

Application Load Balancer

- Create Second Windows EC2 Machine
- Enable HTTP Port
- Install Web server
- Create html file in wwwroot folder
- Create one more folder & create the html file

Application Load Balancer

- Create Target Group

Load Balancing → Target Groups

- Click on Create Target Group
- Enter the Name of the Target Group Name
- Click on Advanced health Check Settings
- Click on Next
- Select the machine & Click on Include as pending below
- Click on Create target group
- Create one more target group for second machine

Application Load Balancer

- Create Application Load Balancer

Load Balancing → Load Balancers

- Click on Create Load Balancer
- Click on Create for application Load balancer
- Enter the Name
- Select all Availability zone
- Select our security group
- Select Default Target Group (First Target Group)
- Click on Create Load Balancer

Application Load Balancer

- Now check our target group
- Go to our Application load Balancer
- Go to Listeners tab
- Select the listener
- Click on edit
- Select the second target group
- Click on save changes
- Click on View/edit rules
- Click on Add Rules

Application Load Balancer

- Click on Insert rule
- Select the condition as Path
- Enter the path & forward to first machine
- Add another Rule
- For the second machine rule it’s mandatory to mention * after the path
- Save the Load Balancer
- Copy the DNS and Paste in Browser
- Change the path as per the folders we have created in the webservers

Application Load Balancer

- Listener: A listener is a process that checks for connection requests.

- **Response Timeout**: The amount of time to wait when receiving a response from the health check, in seconds. Valid values: 2 to 60

- **Interval**: The amount of time between health checks of an individual instance, in seconds. Valid values: 5 to 300

- **Unhealthy Threshold**: The number of consecutive failed health checks that must occur before declaring an EC2 instance unhealthy. Valid values: 2 to 10

- **Healthy Threshold:** The number of consecutive successful health checks that must occur before declaring an EC2 instance healthy. Valid values: 2 to 10